

ABSTRACT

This invention discloses means for obtaining immunogenic peptides, polypeptides, proteins, and their corresponding nucleic acid sequences, target cells with vaccine interest, or lysates thereof, without making structural changes in said antigens, through their association with Very Small Size Proteoliposomes.

The object of the invention is to provide immunogenic compositions containing peptides, polypeptides, proteins, their corresponding DNA sequences, cells or their lysates and Very Small Size Proteoliposomes (VSSP), which are formed by binding the Outer Membrane Protein Complex (OMPC) of *Neisseria meningitidis* with gangliosides, by means of hydrophobic links. Additionally, it is stated that these compositions can be formulated alone or in the form of emulsions with the Incomplete Freund's Adjuvant (IFA), and may also be lyophilized.

The essence of the invention consists in describing compositions that triggers immunogenicity in low immunogenic antigens, such as growth factor receptors, without imparting structural changes therein. Particularly, this invention refers to preparation of immuno-stimulating compositions capable of generating antigen-specific immune responses, even in immuno-compromised hosts, such as those suffering from cancer or viral or bacterial chronic infections. In said patients, the administration of the vaccine compositions described in this invention has lead to the reestablishment of the functionality of the immune system.

Vaccine compositions of this invention can be used to protect or treat infectious, or auto-immune diseases.